

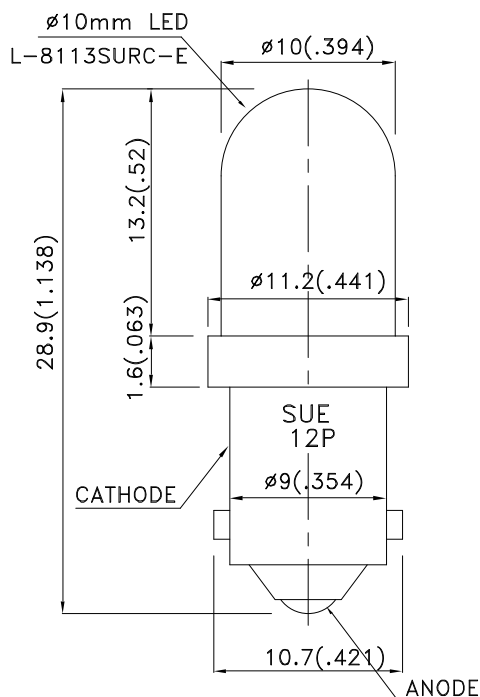
### Features

- Built-in current limiting resistor for direct application of different across current.
- Long life.
- Low current, power savings.
- Low maintenance.
- Different color available.
- Solid state, high vibration resistant.
- 12V internal resistor
- RoHS compliant.

### Description

The Hyper Red source color devices are made with InGaAlP on GaAs substrate Light Emitting Diode.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25 (0.01)$  unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V= 12V		Viewing Angle
			Min.	Typ.	2θ1/2
BLB101SURC-E-12V-P	Hyper Red (AlGaInP)	Water Clear	2700	4200	20°

Note:

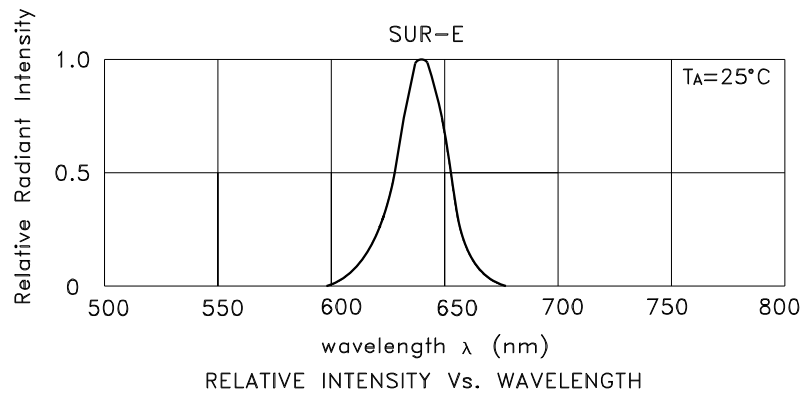
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Hyper Red	640		nm	V <sub>F</sub> =12V
$\lambda_D$	Dominant Wavelength	Hyper Red	630		nm	V <sub>F</sub> =12V
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Red	25		nm	V <sub>F</sub> =12V
I <sub>F</sub>	Forward Current	Hyper Red	16	20	mA	V <sub>F</sub> =12V
I <sub>R</sub>	Reverse Current	Hyper Red		10	uA	V <sub>R</sub> = 5V

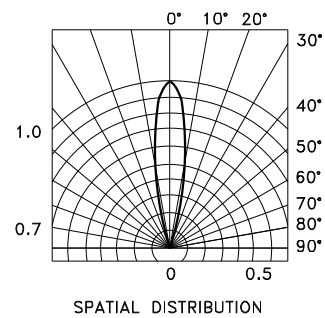
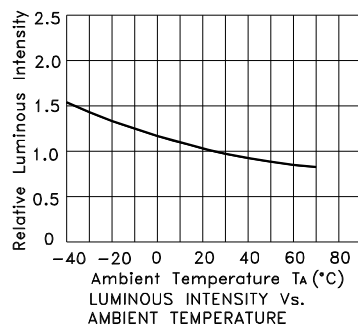
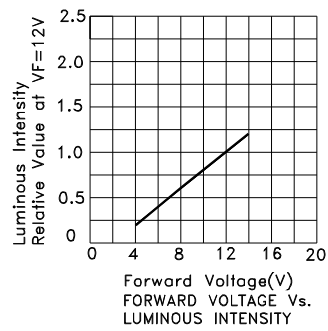
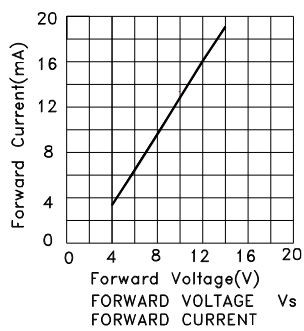
## Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units
Power dissipation	280	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	



## Hyper Red

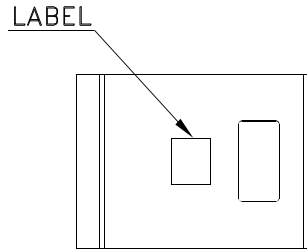
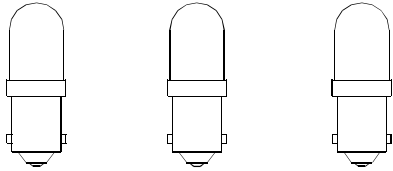
### BLB101SURC-E-12V-P



# Kingbright

## PACKING & LABEL SPECIFICATIONS

BLB101SURC-E-12V-P

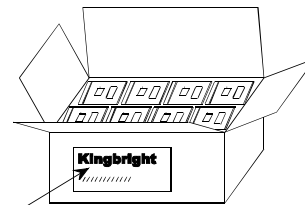


100PCS/BAG




4K/9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

2K/5# BOX

<h1>Kingbright</h1>	
P/NO: BLB101xxx	
QTY: 100 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C XX XX XXXX PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
 <small>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</small>	
RoHS Compliant	